

Patent Abstracts of Japan

PUBLICATION NUMBER : 59004999
PUBLICATION DATE : 11-01-84

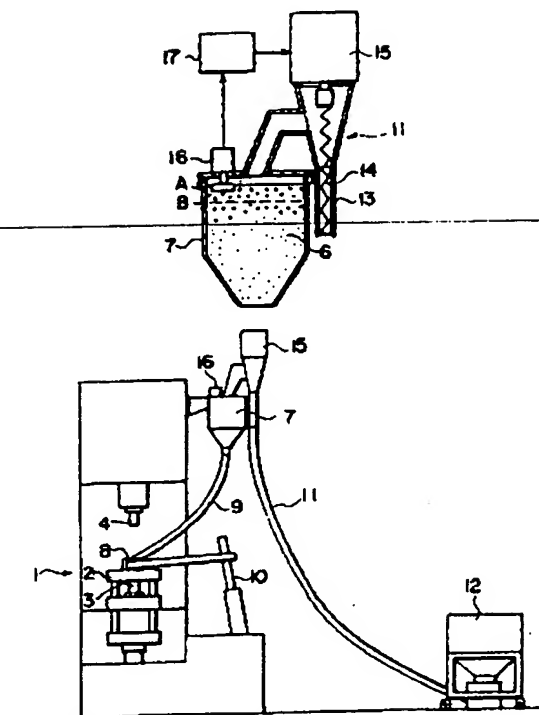
APPLICATION DATE : 30-06-82
APPLICATION NUMBER : 57112964

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INT.CL. : B30B 11/02 B30B 15/30

TITLE : METHOD FOR SUPPLYING POWDER
TO POWDER MOLDING PRESS



ABSTRACT : PURPOSE: To suppress the fluctuation in the supply rate of powder and to make the quality of the resulted powder molding uniform, by controlling the amt. of the powder in a powder supply part, and maintaining the pressure to be exerted on the powder packed in the cavity of a powder molding press in a specified range.

CONSTITUTION: A detector 16 for a powder level is installed in a hopper 7, and a motor 15 is controlled with a control circuit 17 so that the level of powder 6 is kept within the narrow range between an upper limit level A and a permissible level B for weight fluctuation in a device which supplies the powder by gravity through a tube 9 from the hopper 7 by means of a feeder 8 into the cavity (not shown in the figure) of a powder molding press consisting of a die set 2, a lower punch 3, an upper punch 4, etc. The operation of the screw 14 of a screw tube conveyor 11 for transferring the powder 6 from a portable hopper 12 to the hopper 7 is regulated by the above-mentioned device to maintain the pressure to be exerted on the powder packed in the cavity in the stage of packing the powder in a specified range, whereby the fluctuation in the amt. of the powder to be supplied to the cavity is suppressed.

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